

FORM PTO-1390  
(REV 10-2000)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371

6772-01WOUS

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

10/049168

INTERNATIONAL APPLICATION NO.  
PCT/SE00/01567INTERNATIONAL FILING DATE  
10 August 2000PRIORITY DATE CLAIMED  
10 August 1999

TITLE OF INVENTION COMPUTER SECURITY DEVICE FOR HARD DISC PROTECTION

APPLICANT(S) FOR DO/EO/US

Niklas Danielsson

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)).
4. ☒ The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(3)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19(35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

## Items 11 to 16 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A FIRST preliminary amendment.  
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☐ Other items or information:

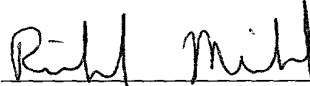
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17. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1040.00</b> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$890.00</b> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$740.00</b> International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$710.00</b> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100.00</b> <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>	<b>CALCULATIONS PTO USE ONLY</b>           																	
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">CLAIMS</th> <th style="width: 25%;">NUMBER FILED</th> <th style="width: 25%;">NUMBER EXTRA</th> <th style="width: 35%;">RATE</th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>9 - 20 =</td> <td>0</td> <td>X \$18.00</td> </tr> <tr> <td>Independent claims</td> <td>1 - 3 =</td> <td>0</td> <td>X \$84.00</td> </tr> <tr> <td colspan="3">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td>+ \$280.00</td> </tr> </tbody> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	9 - 20 =	0	X \$18.00	Independent claims	1 - 3 =	0	X \$84.00	MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$280.00	\$	
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property			\$															
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SEND ALL CORRESPONDENCE TO: Richard R. Michaud McCormick, Paulding & Huber LLP CityPlace II 185 Asylum Street Hartford, CT 06103-3402 (860) 549-5290			 SIGNATURE: Richard R. Michaud      February 7, 2002 NAME 40,088 REGISTRATION NUMBER															

COMPUTER SECURITY DEVICE FOR HARD DISC PROTECTION

## CROSS REFERENCE TO RELATED APPLICATIONS

This application is entitled to the benefit of, and incorporates by reference, essential subject matter disclosed in PCT International Application No. PCT/SE00/01567 filed on 10 August 2000 and Swedish Application No. 9902869-8 filed on 10 August 1999.

## BACKGROUND OF THE INVENTION AND PRIOR ART

The present invention concerns a computer device comprising:  
at least two memory units, wherein each of these memory units  
comprises at least two contact surfaces and is of the kind the function of  
which in the computer device at least partly is determined by whether an  
electric connection is made between these two contact surfaces of the  
memory unit, and at least one manually operable switching device which  
allows for setting the closure and opening of at least one of the  
connections.

Such a known computer device may for example be a personal computer  
(PC). Such a PC comprises sometimes for example two hard disc units  
which thus form two memory units. One hard disc unit may for example  
function as master and the other hard disc unit may function as slave.  
The hard disc units are often of the kind that comprises a plurality of  
contact pins which may be connected in pairs by means of a clamp (a so-  
called jumper). By connecting two predetermined pins with a clamp, a  
hard disc unit may for example be defined as master. When the computer  
device comprises two such hard disc units, one is therefore often defined  
as master and the other as slave by means of said clamps. Further a  
computer device sometimes comprises a switching device which allows  
for the setting of the closure and opening of a connection by means of a  
key. The connection which may be closed and opened may thereby  
simply supply the line voltage to the computer device. This means that  
someone who does not have access to the key may not start or use the  
computer device.

A computer device with two hard disc units is known through the document CA 2 197 502. The document describes a computer device with a switch. With the switch it may be selected which of the two hard disc units that is to be connected. The other hard disc unit can thereby not be used. For the switching one or two keys may be used. The switching device is relatively complicated and comprises a circuit which is connected to the common control and address line of the computer device and to two tristate buffers. These buffers are in their turn connected to the hard disc units via two matching circuits.

The document US-A-5 434 562 describes a computer device which may have a plurality of connected peripheral units. The document describes different manners in which a user may have access to the different units. In the simplest case the access to a unit is determined by closing or opening a connection to the line voltage. In other cases a more complicated circuit is used for influencing different control signals to or from a control unit (controller).

The above-described devices are thus either relatively complicated or use only the switching of the line current or line voltage.

There is a need for the possibility to, in a simple manner, be able to define the function of a memory unit in a computer. For example, it may be the case that for example children in a family use a computer in the absence of the parents. The children may thereby when playing cause problems in programs which are stored on the hard disc. Through the programs that the children use for example viruses or the like may infect the hard disc. It may thus be desirable to prevent people without permission, for example the children, from using at least a certain hard disc in the computer.

#### SUMMARY OF THE INVENTION

The purpose of the present invention is to achieve a computer device which with a very simple construction make switch of memory units which are comprised in the computer device. For example, it may be

advantageous if different users of the computer device use different memory units. An advantage of the present invention is that the contact surfaces which already exist on the memory units are used.

5 The purpose of the invention is achieved with the computer device as initially defined which is characterised in that said switching device is connected to the two contact surfaces of at least a first of the memory units, such that the electric connection between the two contact surfaces of said first memory unit may be opened and closed by the switching device, wherein said function of said first memory unit is determined by whether the switching device is set for closure or opening of the electric connection between the two contact surfaces of said first memory unit. The switching device thus directly controls the closure and the opening of the connection between the contact surfaces which are located on the memory unit. No complicated circuits are thereby needed between the switching device and the contact surfaces of the memory unit. Preferably the switching device is thus directly connected to said contact surfaces without there being any further circuit between the switching device and the contact surfaces.

20 According to an embodiment of the invention, said switching device comprises a locking device which limits the possibility for a user of the computer device to set the switching device for closure or opening. Hereby it is made possible that only the one who has access to the locking device may determine whether a closure or an opening should be the case between the contact surfaces.

30 According to a further embodiment of the invention, said locking device is arranged to be operated by means of a key. Only someone who has access to the key may thus switch the switching device. Instead of a key it is also possible to arrange the locking device with some kind of code.

35 According to still another embodiment of the invention, said switching device is also connected to the two contact surfaces of a second of the at least two memory units, such that the electric connection between the two contact surfaces of the second memory unit may be opened and closed with the switching device, wherein the switching device is

arranged to comprise at least a first and a second setting position, wherein at the first setting position the electric connection between said two contact surfaces of the first memory unit is closed, and wherein at the second setting position the electric connection between said two contact surfaces of the second memory unit is closed. The two contact surfaces of the respective memory unit may thereby for example define which of the memory units that should be connected and that may be used in the computer device. When the switch is set according to a first setting position, the first memory unit may thus be used. When the switching device is set to a second setting position, the second memory unit may be used.

According to still another embodiment of the invention, said locking device is arranged such that said first and second setting position comprise two different locking positions which may be set by means of said key. This means that somebody who has access to the key may select which of the two setting positions that the switching device is to be set at. For example, when the parents leave the computer device they may with the help of the key set the switching device such that only a certain memory unit may be used. The children may then be free to use the computer device and thereby have access to this memory unit. Another memory unit, which usually is used by the parents will not be accessible to the children.

According to a further embodiment of the invention, the switching device is arranged to comprise at least also a further setting position, wherein in this further setting position the electric connection between the two respective contact surfaces with which the switching device is connected is open at all memory units to which the switching device is connected. With the switching device set in this further setting position, booting can be prevented from all memory units. When for example the locking device is arranged to be operated with a key, this means that someone who does not have access to the key may not use the computer device if the switching device is set in this further setting position.

According to another embodiment of the invention, said first and second memory units are hard disc units. The function of the hard disc units in

the computer device may thereby be determined by switching with the help of the switching device.

According to a further embodiment of the invention, said two contact surfaces of said first and second memory unit consist of two pins which are of the kind which are arranged to be connectable by means of a clamp. Such pins are for example arranged on hard disc units. These pins are thereby of a standard type and may be connected to each other by means of a clamp (a so-called jumper).

According to still another embodiment of the invention, the computer device comprises at least a housing, wherein said switching device is arranged at the housing and arranged to be able to be set from the outside of the housing. It is of course advantageous if the switching device in a simple manner may be operated by a user. An advantageous position of the switching device is thus at the housing of the computer device.

According to a further embodiment of the invention, the computer device is arranged such that setting of the switching device in a first position means that the first of said memory units is connected for use in the computer device while the second memory unit is not connected for use. Suitably, but not necessarily, the computer device is also arranged such that setting of the switching device in a second position means that the second memory unit is connected for use while the first memory unit is disconnected and may thus not be used.

According to still another embodiment of the invention, the computer device is arranged such that setting of the switching device in a first position means that both the first and the second memory unit are connected for use in the computer device, wherein the first memory unit functions as master and the second memory unit or memory units function as slave. Preferably, the switching device may hereby comprise a second position, where also both the first and the second memory unit are connected for use in the computer device, but where the second memory unit functions as master and the first memory unit functions as slave. Suitably, the computer device may be arranged in this manner in

that the switching device is connected to predetermined contact surfaces of the memory units and in that it has been defined in the set-up of the computer that one of the memory units functions as master and the other as slave.

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## BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will now be explained with the help of an embodiment given as an example and with reference to the appended drawings.

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Fig 1 shows schematically a computer device according to the invention. Fig 2 shows, also schematically, a switching device connected to memory units.

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Fig 3 shows schematically a front view of an example of the switching device.

## DETAILED DESCRIPTION OF AN EMBODIMENT OF THE INVENTION

Fig 1 shows schematically a computer device 8. The computer device 8 is in this case a personal computer (PC), but also other kinds of computers may be constructed in accordance with the present invention. The computer device 8 comprises a housing 26. A switching device 22 is arranged at the housing 26. The switching device 22 may thus be reached and set from the outside of the housing 26. The switching device 22 comprises a locking device 23. The locking device 23 is in this case of the kind which is operated with the help of a key 24. The locking device 23 thus requires that a user has access to a key 24 in order to be able to set the switching device 22.

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Fig 2 shows schematically two memory units 10, 12. These memory units 10, 12 constitute for example two hard disc units 10, 12. These hard disc units 10, 12 are suitably arranged inside the housing 26 of the computer device 8. It is also possible that the computer device 8 comprises more than two hard disc units 10, 12. A further such hard disc unit 28 is indicated by a broken line. Each of the memory units 10, 12 comprises at least two contact surfaces 14, 16 and 18, 20, respectively. These contact

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surfaces 14, 16, 18, 20 constitute preferably two pins which are of the kind which are arranged to be connectable by means of a clamp (a so-called jumper). Such pins 14, 16, 18, 20 are often of a standard kind and a memory unit is usually equipped with several such pairs of pins 14, 16, 18, 20 which are connectable with a clamp. By connecting a certain pair of such pins 14, 16 may for example be defined that the memory unit 10 constitutes the master unit in the computer device 8. Other pairs of pins may define other functions of the memory unit in question. The indicated memory unit 28 also has at least one such pair of pins 31, 32. The function of the memory unit 10, 12, 28 in the computer device 8 is thus determined at least partly by whether electric connection is the case between the two contact surfaces 14, 16; 18, 20; 31, 32.

Furthermore, it may also be defined in the set-up of the computer device 8 which function a certain memory unit 10, 12, 28 has in the computer device 8 when predetermined pins are connected to each other. For example, the computer device 8 may thereby be arranged such that if predetermined pins on a certain memory unit are connected to each other, then the memory unit in question is connected for use in the computer device while the other memory unit or memory units are disconnected and may thus not be used. Alternatively, it may be defined in the set-up of the computer that a certain memory unit, when predetermined pins of this memory unit are connected to each other, functions as master and the other memory units function as slave. This means, inter alia, that booting of the computer device 8 is done from the memory unit which functions as master.

The computer device 8 also comprises a switching device 22. The switching device 22 may for example be of a so-called key switch kind. This means that the switching device 22 is operable with the help of the key 24. In Fig 2 is schematically shown how such a switching device 22 may function. The switching device 22 comprises a plurality of poles 42, 46, 48, 50, 51, 52. These poles are according to this embodiment arranged in pairs (by a pair of poles is in this application meant two contact surfaces of the switching device between which a connection may be closed or opened with the switching device). If the key 24 is set in a certain position, the poles 44 and 46 are connected to each other. If

the key is set in a second position, the connection between the poles 48 and 50 is closed. The switching device 22 may also comprise further poles such as is indicated by 51 and 52. By manual setting with the help of the key 24, the switching device 22 may thus be set for closing and opening of the different pairs of poles 44, 46; 48, 50; 51, 52.

The two poles 44, 46 of the switching device 22 are via lines 15, 17 connected to the two contact surfaces 14, 16 of a first 10 of the memory units. If the key 24 of the locking device 23 is set in a first position which closes the connection between the poles 44 and 46, then thereby also the connection between the pins 14, 16 of the memory unit 10 is closed. The function of the first memory unit 10 is thereby determined by whether the switching device 22 is set for closing or opening of the electric connection between the two pins 14, 16 of the memory unit 10. According to the simplest embodiment of the invention, only the connecting lines 15, 17 are needed between the switching device 22 and a memory unit 10. This memory unit 10 may thereby thus be connected and disconnected with the help of the key 24.

According to the shown embodiment the poles 48, 50 of the switching device 22 are connected via lines 19, 26 to the pins 18, 20 of a second memory unit 12. The switching device 22 may thereby with the help of the key 24 be set in a second position where the poles 48, 50 are electrically connected to each other. This means that the pins 18, 20 of the second memory device 12 are connected to each other. When the key is set in this position, the connection between the poles 44, 46 is open and thereby also the connection between the pins 14, 16 is open.

By setting the key 24 in a first position thus for example only the memory unit 10 may be connected while the memory unit 12 is disconnected. By setting the key 24 in a second position, the memory unit 12 may be connected while the memory unit 10 is disconnected. Alternatively, one memory unit 10 may in a first position function as master while the other memory unit 12 functions as slave and vice versa in a second setting position. The switching device 22 may also comprise a further setting position. This further setting position may be such that when the switching device 22 is set in this position, the connection is open

between the two pins 14, 16; 18, 20 and 31, 32, respectively, at all memory units 10, 12, 28 which are connected to the switching device 22. With the switching device 22 set in this further position for example no booting can be performed.

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Fig 3 shows schematically how the locking device 23 of the switching device 22 may look to a user of the device. The switching device 22 may suitably be arranged in a holding member 25. This holding member 25 may for example be adapted to be arranged in a standard position in a computer. The device may be provided with a first indication mark 27 and a second indication mark 29. The two indication marks 27, 29 may differ from each other by for example having different colours, different patterns or comprise different symbols. In order to allow for a simple installation of the switching device 22, the lines 15, 17 and 19, 21, respectively, (see Fig 2) may suitably have corresponding indications to the indication marks 27, 29. The lines 15, 17, which lead to a memory unit 10, may form part of a common cable or may be twisted together. This cable or these lines 15, 17 may thereby for example comprise a certain colour which corresponds to the colour of the first indication mark 27. In the corresponding manner, the lines 19, 21 may comprise another colour which corresponds to the colour of the second indication mark 29. The locking device 23 may also have a neutral position where the key 24 is set such as is shown in Fig 3. Possibly, a third indication mark 30 may indicate this neutral position. This neutral position may for example be the above described further setting position, in which the connection is open between the pins 14, 16; 18, 20; 31, 32 of all memory units 10, 12, 28.

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When the key 24 is turned to the left, i.e. towards the first indication mark 27, suitably the lines 15, 17 which have the corresponding indication as the indication mark 27 are short-circuited. If the key 24 is turned to the right, i.e. towards the second indication mark 29, suitably the connection between the lines 19 and 21 which have the corresponding symbol to the second indication mark 29 is closed.

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The present invention makes a very simple solution possible to the problem to by means of a lock being able to define the function of a

certain memory unit, for example a hard disc unit. Since the contact surfaces, i.e. the pins 14, 16, 18, 20, already are arranged on the hard disc unit, it is according to the invention only necessary to draw lines 15, 17, 19, 21 from these pins 14, 16, 18, 20 to the switching device 22. No  
5 further electronic circuitry is necessary between the pins 14, 16, 18, 20 and the switching device 22.

As an example of an application of the invention may be mentioned that it may be the case that different users, for example colleagues at work,  
10 who use the same computer, want to use different hard disc units in order not to risk to manipulate each others programs. According to the invention, it may thus in a simple manner with the help of the switching device be set which of the hard disc units that is to be connected. The different users may thereby use their own hard discs and therefore do  
15 not risk causing any changes in that which is stored on the hard discs of the other users.

The present invention is not limited to the shown embodiment but may be varied and modified within the scope of the following claims. As has been  
20 described above, it is possible that the locking device comprises a setting position where none of the memory units is connectable. Furthermore, the locking device may be arranged to be operated with different keys which give access to different memory units: with a first key the switching device may be set in a first position and with another  
25 key the switching device may be set in a second position.

What is claimed is:

1. A computer device comprising:

at least two memory units, wherein each of these memory units comprises at least two contact surfaces and is of the kind the function of which in the computer device at least partly is determined by whether an electric connection is made between two contact surfaces of the memory unit,

at least one manually operable switching device which can be set to close and open at least one connection,

said switching device being connected to the two contact surfaces of at least a first of the memory units, such that the electric connection between the two contact surfaces of said first memory unit may be opened and closed by the switching device, wherein said function of said first memory unit is determined by whether the switching device is set for closure or opening of the electric connection between the two contact surfaces of said first memory unit, wherein said switching device comprises a locking device which limits the possibility for a user of the computer device to set the switching device for closure or opening, and wherein said two contact surfaces of each of said memory units consist of two jumper-pins which are provided on said memory units and which are of the kind arranged to be connectable by means of a clamp.

2. A computer device according to claim 1, wherein said locking device is arranged to be operated by means of a key.

3. A computer device according to claim 1, wherein said switching device is also connected to the two contact surfaces of a second of the at least two memory units, such that the electric connection between the two contact surfaces of the second memory unit may be opened and closed with the switching device, wherein the switching device is arranged to comprise at least a first and a second setting position, wherein at the first setting position the electric connection between said two contact surfaces of the first memory unit is closed, and wherein at the second setting position the electric connection between said two contact surfaces of the second memory unit is closed.

4. A computer device according to claim 2, wherein said locking device is arranged such that said first and second setting position comprise two different locking positions which may be set by means of said key.

5 5. A computer device according to claim 3, wherein the switching device is arranged to comprise at least also a further setting position, wherein in this further setting position the electric connection between the two respective contact surfaces with which the switching device is connected, is open at all memory units to which the switching device is connected.

6. A computer device according to claim 1, wherein said at least two memory units are hard disc units.

7. A computer device according to claim 1 further comprising a housing, wherein said switching device is arranged at the housing and arranged to be able to be set from the outside of the housing.

5 8. A computer device according to claim 1, wherein the computer device is arranged such that setting of the switching device in a first position means that the first of said memory units is connected for use in the computer device, while the second of said at least two memory units is not connected for use.

5 9. A computer device according to claim 1, wherein the computer device is arranged such that setting of the switching device in a first position means that the memory units are connected for use in the computer device, wherein the first memory unit functions as master and a second of the at least two memory units or memory units functions as slave.

## Abstract

The invention concerns a computer device which comprises at least two memory units. The memory units are of the kind the function of which in the computer device at least partly is determined by whether electric connection is the case between two contact surfaces of the memory unit. The computer device also comprises a switching device. The switching device is connected with the two contact surfaces of at least a first of the memory units. The electric connection between the two contact surfaces of the first memory unit may be opened and closed with the switching device. The function of the first memory unit is thus determined by whether the switching device is set for closure or opening of the connection between the contact surfaces.

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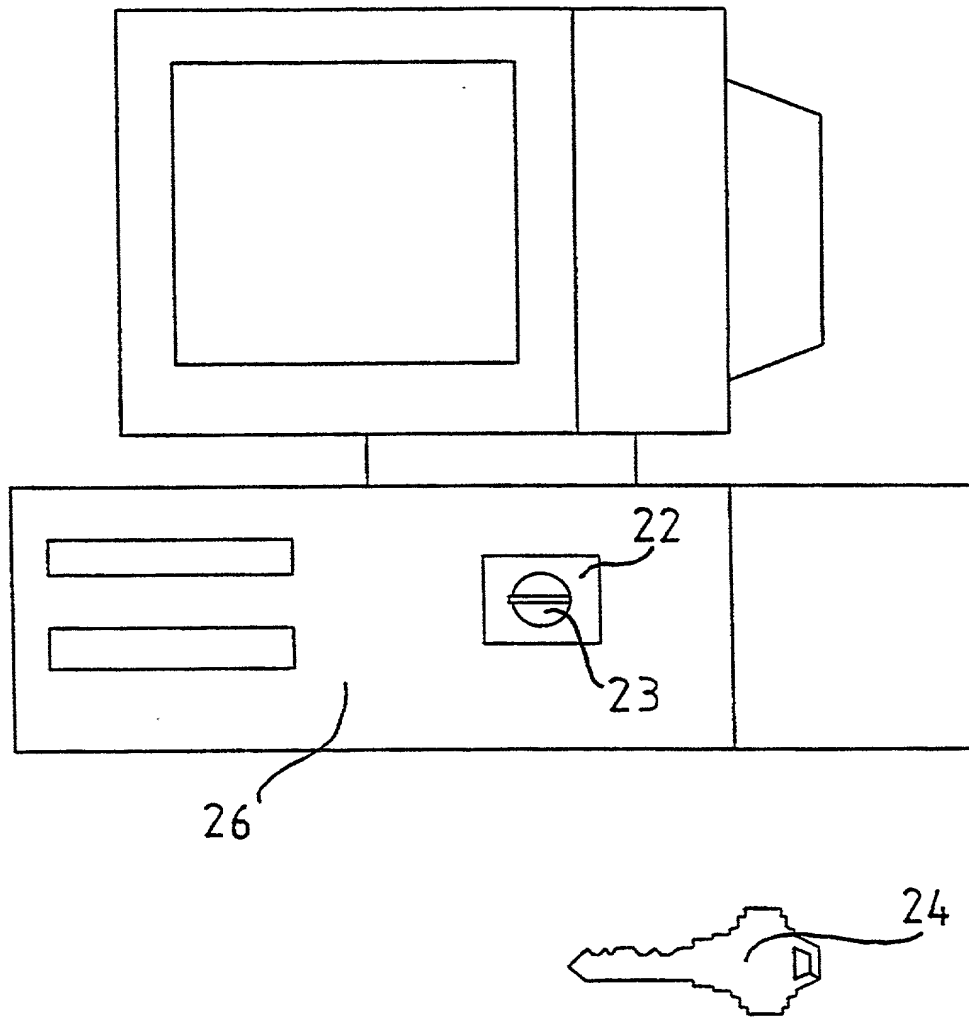


FIG 1

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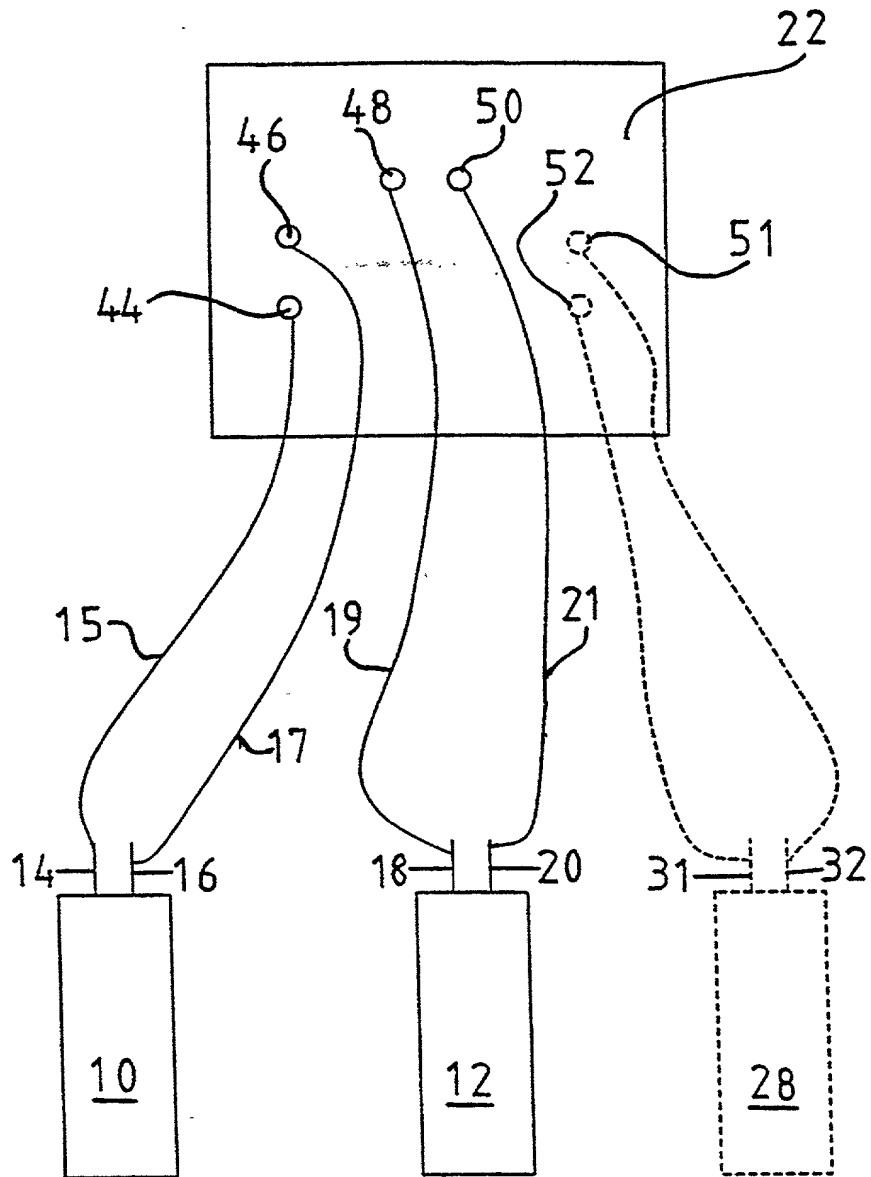


FIG 2

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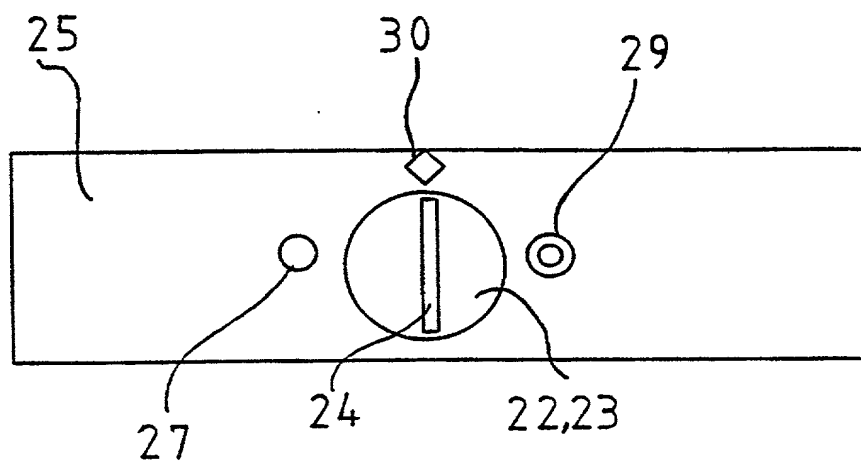


FIG 3

**COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**  
(includes Reference to PCT International Applications)

Attorney's docket No.

6772-01WOWS

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**COMPUTER SECURITY DEVICE FOR HARD DISC PROTECTION**

the specification of which (check only one item below):

☐ is attached hereto.

☐ was filed as United States application.

Serial No. \_\_\_\_\_

on \_\_\_\_\_

and was amended

on \_\_\_\_\_ (if applicable).

☒ was filed as PCT international application

Number PCT/SE00/01567

on August 10, 2000

and was amended under PCT Article 19

on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

**PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:**

COUNTRY (if PCT indicate PCT)	APPLICATION NO.	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. 119
Sweden	9902869-8	10/08/99	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**Combined declaration for patent application and power of attorney (continued)**  
(includes Reference to PCT International Applications)

Attorney's docket No.

**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:**

U.S. APPLICATIONS		STATUS (Check one)		
APPLICATION NO.	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

PCT APPLICATIONS DESIGNATING THE U.S.				
APPLICATION NO.	FILING DATE	US SERIAL NO. ASSIGNED (if any)		
PCT/SE00/01567	August 10, 2000			

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number):  
 Theodore R. Paulding, Reg. No. 19,294; Donald K. Huber, Reg. No. 18,686; John C. Hilton, Reg. No. 22,965; Frederick J. Haesche, Reg. No. 24,529; John C. Linderman, Reg. No. 24,420; J. Kevin Grogan, Reg. No. 31,961; Arthur F. Dionne, Reg. No. 23,093; Richard R. Michaud, Reg. No. 40,088; Daniel G. Mackas, Reg. No. 38,541; Marina F. Cunningham, Reg. No. 38,419; Susan C. Oygard, Reg. No. 42,969; Nicholas Tuccillo, Reg. No. 44,322; Wm. Tucker Griffith, Reg. No. 44,726; Stephen Scuderi, Reg. No. 42,136; Mary-Jacq Holroyd, Reg. No. 41,846; Anthony D. Wilson, Reg. No. 45,223; Richard D. Getz, Reg. No. 36,147; William B. Gowanlock, Reg. No. 41,794 and Donald J. MacDonald, Reg. No. 42,823.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201

DATE

02-01-24